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23373 SUGHRUE MI	7590 08/05/200 ON, PLLC	EXAMINER		
2100 PENNSYLVANIA AVENUE, N.W.			PHAM, TUAN	
	SUITE 800 WASHINGTON, DC 20037		ART UNIT	PAPER NUMBER
			2618	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
	10/751,482	CHANG, KI-SOO				
Office Action Summary	Examiner	Art Unit				
	TUAN A. PHAM	2618				
The MAILING DATE of this communication app	ears on the cover sheet with the c	orrespondence address				
Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on <u>14 M</u>	av 2009					
	action is non-final.					
						
closed in accordance with the practice under E	•					
Disposition of Claims						
4)⊠ Claim(s) <u>1,4-8 and 11-15</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6) Claim(s) <u>1, 4-8, and 11-15</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	r election requirement.					
Application Papers						
9) The specification is objected to by the Examine	r.					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list	of the certified copies not receive	.d.				
Attachment(s)						
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) ☐ Interview Summary Paper No(s)/Mail Da					
3) Information Disclosure Statement(s) (PTO/SB/08)	5) Notice of Informal P					
Paper No(s)/Mail Date	6) Other:					

DETAILED ACTION

Response to Arguments

1. Applicant's arguments filed 05/14/2009 have been fully considered but they are not persuasive.

In response to applicant's remark on pages 2-3, Applicant argues that Kammer fails to teach "receives inquiry responses including device information from said at least one of said peripheral devices that has received the inquiry" as recited in claims 1, 8, and 15.

In response to applicant's arguments as stated above, Examiner respectfully disagrees with the Applicant's argument. It is important to note that the claim fails to clearly defined what is the meaning of "device information". However, the claim language regarding "receives inquiry responses including device information from said at least one of said peripheral devices that has received the inquiry" is broadly interpreted as device 20 receives inquiry responses 42a from the responding device 30 that is included the device information such as Bluetooth device address or class of device (see figure 1, initiator device 20, responding device 30, col.2, ln.4-32).

In response to applicant's argument that the references fail to show certain features of applicant's invention, it is noted that the features upon which applicant relies (i.e., the device information includes information regarding peripheral devices such as a computer, printer, PDA, headset, speaker, and computer+speaker) are not recited in the rejected claim(s). Although the claims are interpreted in light of the specification,

Art Unit: 2618

limitations from the specification are not read into the claims. See *In re Van Geuns*, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993).

In response to applicant's remark on pages 2-3, Applicant argues that Rune fails to teach "the device information is contained in unused portions of a frequency hop synchronization (FHS) packet used for an inquiry response message, and the unused portions of the FHS packet are an Undefined field and an AM ADDR field" as recited in claims 1, 8, and 15.

In response to applicant's arguments as stated above, the Examiner respectfully disagrees with the Applicant's argument. In this case, Rune teaches the device information is contained in unused portions of a frequency hop synchronization (FHS) packet used for an inquiry response message, and the unused portions of the FHS packet are an Undefined field and an AM ADDR field (see figure 4, col.4, In.50-67).

Base on the above rational, it is believed that the claimed limitations are met by the combination of Kammer and Rune and therefore, the rejection are still maintained but edited for clarity.

Art Unit: 2618

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

3. <u>Claims 1, 8, and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kammer (US Patent No.: 7,356,347) in view of Rune et al. (U.S. Patent No.: 6,901,057, hereinafter, "Rune").</u>

Regarding claim 1, Kammer teaches a Bluetooth wireless communication apparatus (see figure 4, Bluetooth wireless device 400) for identifying devices connectable to ad-hoc networks (see figure 2, wireless devices 210-240 connects to piconet network, col.7, ln.1-25), comprising:

a user interface enabling a user to select at least one desired device among peripheral devices (see figure 4, display 440, keypad 460 the user can select any printers display on display screen 440, col.2, ln.18-32); and

a control unit for providing (see figure 4, processor 450), through the user interface (display 410 or keypad 460), information on the peripheral devices connectable to a wireless communication device (see figure 7A, display 440 display information of printers col.2, ln.18-32), and, if said at least one desired device is selected from among the peripheral devices through the user interface, establishing a connection to only said at least one desired device (see figure 7A, col.2, ln.18-32, user only select the printer that they want to connects), and not attempting a connection to at

least one undesired devices which is not selected by the user from among the peripheral devices connectable to a wireless communication device (see figure 7A, col.2, In.18-32, it is clearly seen that the user only select the printer that they want to connect, not other printer), and wherein the control unit sends an inquiry to search for said connectable peripheral devices (see figure 1, inquiry 40), receives inquiry responses including device information from said at least one of said peripheral devices that has received the inquiry (see figure 1, inquiry response 42a, the device information such as Bluetooth device address or class of device), and provides information on said at least one of the peripheral devices that received the inquiry (see figure 1, initiator device 20, responding device 30, col.2, In.4-32).

It should be noticed that Kammer fails to teach the device information is contained in unused portions of a frequency hop synchronization (FHS) packet used for an inquiry response message, and the unused portions of the FHS packet are an Undefined field and an AM ADDR field. However, Rune teaches such features (see figure 4, col.4, ln.50-67).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the teaching of Rune into view of Kammer in order to carry the information for transmitting the data between the master and slave in the piconet.

Regarding claims 8 and 15, Kammer teaches a wireless communication method of indicating devices connectable to ad-hoc networks for a Bluetooth-embedded wireless communication apparatus (see figure 2, wireless devices 210-240 connects to

Art Unit: 2618

piconet network, col.7, ln.1-25) which as an input unit for enabling a user to input desired values (see figure 4, display 440 or keypad 460) and a display unit for displaying various information (see figure 4, display 440, col.2, ln.18-32), the wireless communication method comprising steps of:

providing through the display unit information on peripheral devices in a range connectable to the wireless communication apparatus (see figure 4, display 440, the user can select any printers display on display screen 440, col.2, ln.18-32); and

if a device to which the user wants to connect is selected from among the peripheral devices through the input unit, establishing a connection to only the device to which the user wants to connect (see figure 7A, display 440 display information of printers col.2, ln.18-32), and not attempting a connection to device which are not selected by the user from among the peripheral devices connectable to a wireless communication device (see figure 7A, display 440 display information of printers, user select the printer, col.2, ln.18-32), wherein the step of providing information through the display unit comprises steps of sends an inquiry to search for said connectable peripheral devices (see figure 1, col.2, ln.18-32), receives inquiry responses including device information from said at least one of said peripheral devices that has received the inquiry (see figure 1, col.2, ln.18-32, the device information such as Bluetooth device address or class of device), and provides information on said at least one of the peripheral devices that received the inquiry (see figure 1, col.2, ln.18-32).

It should be noticed that Kammer fails to teach the device information is contained in unused portions of a frequency hop synchronization (FHS) packet used for

Art Unit: 2618

an inquiry response message, and the unused portions of the FHS packet are an Undefined field and an AM ADDR field. However, Rune teaches such features (see figure 4, col.4, ln.50-67).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the teaching of Rune into view of Kammer in order to carry the information for transmitting the data between the master and slave in the piconet.

4. <u>Claims 4, 6-7, 11, and 13-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kammer (US Patent No.: 7,356,347) in view of Rune et al. (U.S. Patent No.: 6,901,057, hereinafter, "Rune") as applied to claims 1 and 8 above, and further in view of Olkkonen et al. (Pub. No.: U.S. 2005/0088980, hereinafter, Olkkonen").</u>

Regarding claims 4 and 11, Kammer and Rune, in combination, fails to teach a liquid crystal display (LCD) unit for displaying various information, and the various information on the peripheral devices being displayed on the LCD unit in a form of a character string. However, Olkkonen teaches a liquid crystal display (LCD) unit for displaying various information, and the various information on the peripheral devices being displayed on the LCD unit in a form of a character string (see figure 1, display 212).

Application/Control Number: 10/751,482

Art Unit: 2618

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the teaching of Olkkonen into view of Kammer and Rune in order to easily read.

Page 8

Regarding claims 6 and 13, Olkkonen further teaches the control unit sends an inquiry to search for a first group of peripheral devices in a directly connectable wireless range (see figure 1, mobile 100 sends inquiry message to AD HOC network 102), receives inquiry responses including device information from at least one of the peripheral devices that has received the inquiry (mobile 100 receive the response from slave in piconet, [0099-0100]), and, if service attributes of said at least one of the peripheral devices is collected from the received device information and said at least one of the peripheral devices has one of a group ad-hoc network ability and scatternet ability (piconet)([0029-0045), searches for said at least one of the peripheral devices connectable to corresponding devices and further displays the connectable corresponding devices as information on said at least one of the peripheral devices (see figure 1, display 212, [0114-0140]).

Regarding claims 7 and 14, Olkkonen further teaches if the received service attributes one of support a group ad-hoc network service and indicate the scattenet ability, the control requests the corresponding devices to discover more peripheral devices (see figure 1A, AD HOC network and piconet network suck as Bluetooth, [0114-0140]).

Art Unit: 2618

5. Claims 5 and 12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kammer (US Patent No.: 7,356,347) in view of Rune et al. (U.S. Patent No.: 6,901,057, hereinafter, "Rune") as applied to claims 1 and 8 above, and further in view of Muthuswamy et al. (U.S. Patent No.: 2004/0204151, hereinafter, "Muthuswamy").

Regarding claims 5 and 12, Kammer and Rune, in combination, disclosed all the limitations of claims 5 and 12, except speaker for producing sound. However, Muthuswamy teaches such features (see figure 4, speaker 308).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the teaching of Muthuswamy into view of Kammer and Rune in order to provide the audio to the user.

Conclusion

6. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

Art Unit: 2618

the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tuan A. Pham whose telephone number is (571) 272-8097. The examiner can normally be reached on Monday through Friday, 8:30 AM-5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matthew Anderson can be reached on (571) 272-4177. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have question on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/TUAN A PHAM/

Primary Examiner, Art Unit 2618